PROGRAM TRACING IN A MULTITHREADED PROCESSOR

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ABSTRACT OF THE DISCLOSURE

A multithreaded processor includes a thread ID for each set of fetched bits in an instruction fetch and issue unit. The thread ID attaches to the instructions and operands of the set of fetched bits. Pipeline stages in the multithreaded processor stores the thread ID associated with each operand or instruction in the pipeline stage. The thread ID are used to maintain data coherency and to generate program traces that include thread information for the instructions executed by the multithreaded processor.